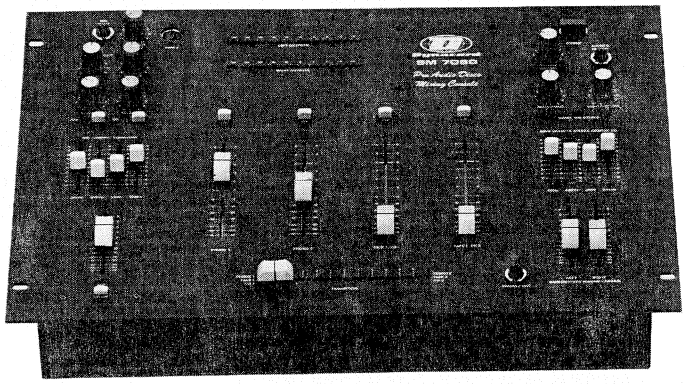
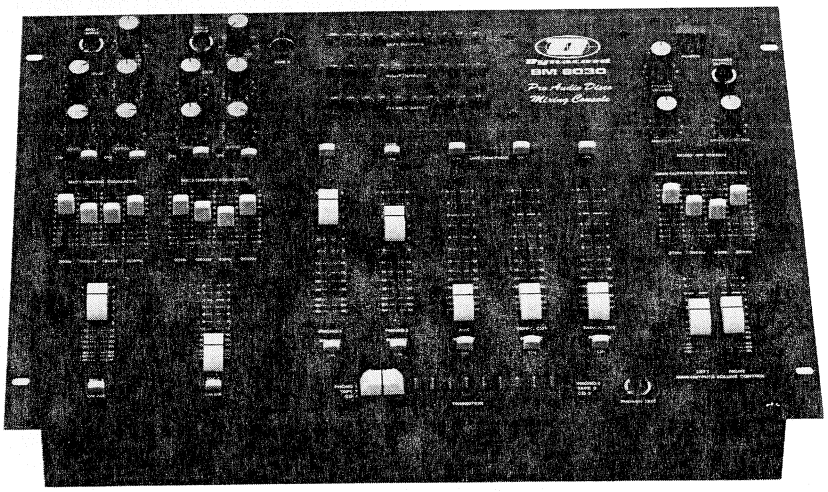
DYNACORD®
Service Manual

Nov. 85





Schutzgebühr: DM 10.–

Pro Audio Disco
Mixing Console

SM 7080
SM 8030

SM 7080
SM 8030

Sicherheitsvorschriften

Bei Reparaturarbeiten im Gerät sind die Sicherheitsbestimmungen gemäß VDE 0860/IEC 65 zu beachten und einzuhalten.

Auf der Primärseite sind die geforderten Luft- und Kriechwege unbedingt einzuhalten:

1. Mindestabstand zwischen netzspannungsführenden Teilen und berührbaren Metallteilen (Metallgehäuse usw.) 6 mm.

2. Mindestabstand zwischen den Netzpolen: 3 mm.

Ergänzend möchten wir hierzu erwähnen, daß spezielle Bauteile in den Geräten aufgrund ihres Aufbaues nur durch Originalteile ersetzt und keine eigenmächtigen Schaltungsänderungen vorgenommen werden dürfen.

Außerdem sind die am Reparaturort gültigen Schutzbestimmungen der Berufsgenossenschaften beim Umgang mit diesen Geräten einzuhalten. Hierzu gehört auch die Beschaffenheit des Arbeitsplatzes.

Die Kenntnis dieser Vorschriften ist die Voraussetzung, um einen fachgemäßen Service dieser Geräte durchführen zu können.

Safety regulations

When carrying out repair work on the appliance the safety regulations in accordance with VDE 0860/IEC 65 are to be noted and observed.

The specified air gaps and creeping distances on the primary windings are to be observed by all means:

1. The minimum distance between voltage carrying and metal parts (e.g. chassis) is 6 mm.

2. The minimum distance between the mains terminals is 3 mm.

In addition we would like to point out that because of their construction special components must only be replaced by original parts and no alterations to the wiring should be undertaken.

Furthermore the safety regulations of the professional associations concerning the handling of these appliances are to be observed at the workshop where repairs are carried out. Included here are the features of the place of work.

Knowledge of these regulations is a pre-requisite for proper servicing of these appliances.

SM 8030 Technische Daten

1) Betriebsspannung 220 V max. 30 VA, Meßfrequenz 1 kHz. alle Spannungsangaben bezogen auf 1,55 (V) am Normal out Ausgang.
Alle EQs Mittelstellung, alle Schieberegler jeweils voll auf oder zu, Gains Rechtsanschlag, Effect-Regler Rechtsanschlag, Aux out, Light out Rechts- oder Linksanschlag. Mic und Vorhörtasten nur bei Mic bzw. Vorhörmessung gedrückt. Stellung "Stereo". Effecttasten nur bei jeweiliger Effect Send Messung gedrückt. PAN Regler Mittelstellung. Lo - cut Linksanschlag.

Alle Messungen mit Sennheiser UPM 550. Stellung "A", "RMS", falls nicht anders angegeben.

2) Eingänge

Phono 1,2	2 (mV)	max.	60 (mV)
Phono 3	2 (mV)	max.	60 (mV)
Tape 1,2	75 (mV)	max.	35 (V)
Line	60 (mV)	max.	35 (V)
Mic 1	4,5 (mV)	max.	5 (V)
Mic 2	4,5 (mV)	max.	5 (V)
Effect 1 Return	900 (mV)		
Effekt 2 Return	900 (mV)		
Expansionb.	550 (mV)	max.	8 (V)

3) Ausgänge

Normal out	1,55 (V)	max.	8 (V)
Lo out (50 Hz unbewertet)	1,55 (V)	max.	8 (V)
Hi out	1,55 (V)	max.	8 (V)
Aux out	1 (V)	max.	8 (V)
Light out	4 (V)	max.	8 (V)

Phones out	2,5 (V)		max. 8 (V)
Tape send (Cinchbuchse)	150 (mV)	max	3 (V)
Tape send (DIN)	150 (mV)		max. 3 (V) /330 kOhm
Effekt 1	1,9 (V)		max. 4 (V)
Effekt 2	1,9 (V)		max. 4 (V)

4. Rauschspannung ("A", "RMS")

Main outputs Steller geschlossen.

Normal out	< 30 (uV)
Lo out	< 10 (uV)
Hi out	< 30 (uV)

Main outputs Steller offen.

Normal out	< 100 (uV)

Main outputs Steller offen, Phono 1,2 offen, Phonoeingänge kurzgeschlossen.

Normal out	< 600 (uV)

Main outputs Steller geschlossen, Mic 1 bzw. Mic 2 Eingang kurzgeschlossen, Mic 1 bzw. Mic 2 Steller offen.

Normal out	< 500 (uV)

5) Klirrfaktor < 0,05 %

6) Clip - Anzeige

Eingangsspannung für Leuchtbeginn ≈ 3 (mV)

7) Mikrophonautomatik

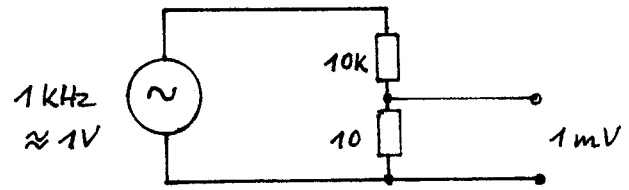
Schwellwert minimal	≈ 300 (uV)
Schwellwert Gainregler Mitte	≈ 3 (mV)
Schwellwert Gainregler Linksanschlag	≈ 200 (mV)

8) Nutzbarer Augangsdynamikbereich > 108

Nutzbarer Phonoentzerrerdynamikbereich > 94

9) Frequenzgänge siehe Seite 17 - 18

1) Betriebsspannung 220 V
Meßfrequenz 1 kHz, Meßspannung 1 mV/10 Ohm



Alle EQs Mittelstellung, Fader jeweils auf Anschlag (unbenutzte Regler-Kanäle schließen), alle Drehregler Mittelstellung, Transition Mittelstellung, alle Tasten gedrückt.

Alle Messungen mit Sennheiser UPM 550. Stellung "Spitze", "CCIR 468", falls nicht anders angegeben.

2) Phono 1,2 (Links bzw. Rechts)

Normal out	550 (mV)
Lo out	120 (mV)
Hi out	550 (mV)
Aux out	75 (mV)
Light out	530 (mV)
Phones out	1 (V)

3) Aux Stellung "Line" (Links bzw. Rechts)

Normal out	22 (mV)

Aux Stellung "Phono 3" (Links bzw. Rechts)

Normal out	1,5 (V)

4) Tape 1,2 (Links bzw. Rechts)

Normal out	15 (mV)

5) Tape send Cinch Buchsen (Links bzw. Rechts)

(Einspeisung 1 mV in Phono 1 oder Phono 2)

75 (mV)

6) Tape send (Diodenbuchse Tape 2)

50 (mV)

7) Geräuschspannung ("Spitze", "CCIR 468")

"Main outputs" Steller offen

Normal out	< 650 (uV)

"Main outputs" Steller geschlossen

Normal out	< 160 (uV)
Lo out	< 16 (uV)
Hi out	< 160 (uV)
Aux out	< 260 (uV)
Light out	< 4,5 (mV)

"Main outputs" Steller offen

Phono 1,2 (Eingänge kurzgeschlossen, Schieberegler auf).

Normal out	< 1,9 (mV)

Phono 3 (Eingänge kurzgeschlossen, Schieberegler auf).

Normal out	< 5 (mV)

8) Mic 1 Buchse auf Frontblende (U_E = 50 mV !)

Normal out	1,5 (V)
To Effect 1	750 (mV)
To Effect 2	750 (mV)

Cliplampe muß aufleuchten.

Einspeisen in Effect Returns (Links bzw. Rechts)

(U_E = 50 mV)

Normal out	110 (mV)
Tape send (Cinch Buchsen)	20 (mV)

9) Mic 2 Buchse auf Blende (U_E = 50 mV !)

Normal out	1,5 (V)
To Effect 1	750 (mV)
To Effect 2	750 (mV)

Cliplampe muß aufleuchten.

10) Geräuschspannung

"Main outputs" Steller geschlossen.

Mic 1 Eingang kurzgeschlossen.

Normal out < 290 (uV)

Mic 2 Eingang kurzgeschlossen.

Normal out < 290 (uV)

11) Mikrophonautomatik

In Mic 1 Buchse 50 (mV) einspeisen, gleichzeitig in Phono 1,2 oder Tape 1,2 einspeisen. Talkoverregler Rechtsanschlag. Mic 1 Schieberegler schliessen. Mit Trimmpoti R 137/138 Ausgangsspannung an Normal out auf Minimum justieren.

Talkoverdämpfung > 40 (dB)

12) Einschaltverzögerung ca. 2,5 (S)

13) LED - Ketten

Links und Rechts.

Bei 1,5 V am Normal out mit R 701 so justieren, daß 8 dB LEDs gerade verlöschen.

Kopfhörer

Bei 7 V am Kopfhörerausgang mit R 701 so justieren, daß 8 dB LEDs gerade verlöschen.

	SM 8030	SM 7080
Eingänge		
Phono 1, 2	2 mV - 60 mV	2 mV - 60 mV
Phono 3	2 mV - 60 mV	
Tape 1, 2	75 mV - 35 V	75 mV - 35 V
Line	60 mV - 35 V	
Mic 1	4,5 mV - 5 V	4,5 mV - 5 V
Mic 2	4,5 mV - 5 V	
Effect 1 Return	900 mV	900 mV
Effect 2 Return	900 mV	900 mV
Expansionb.	550 mV - 8 V	550 mV - 8 V
Ausgänge		
Normal out	1,55 V - 8 V	1,55 V - 8 V
LO out (10 Hz - 200 Hz, - 3dB)	1,55 V - 8 V	1,55 V - 8 V
HI out (200 Hz - 100 kHz, - 3 dB)	1,55 V - 8 V	1,55 V - 8 V
Aux out	1 V - 8 V	1 V - 8 V
Light out	4 V - 8 V	4 V - 8 V
Phones out (R_L = 2 x 600 Ohm)	2,5 V - 8 V	2,5 V - 8 V
Tape Send (Cinch)	150 mV - 3 V	150 mV - 3 V
Tape Send (DIN)	150 mV - 3 V/330 kOhm	150 mV - 3 V/330 kOhm
Effect 1	1,9 V - 4 V	1,9 V - 4 V
Effect 2	1,9 V - 4 V	1,9 V - 4 V
Klirrfaktor	< 0,05 %	< 0,05 %
Dynamikbereich	108 dB	108 dB
Leistungsaufnahme	max. 30 VA	max. 25 VA
Betriebsspannung	220 V~ AC 50-60 Hz	220 V~AC 50-60 Hz
Abmessungen (B x H x T)	483 x 355 x 135 mm	483 x 355 x 135 mm
Gewicht	7,5 kg	7 kg

- Änderungen vorbehalten -

1) Operating voltage: 220 V, 30 VA max.; test frequency 1 kHz. All voltage specifications are referenced to an output level of 1.55 (V) at the "normal out" jack.
Test settings: All equalizers in their neutral positions; all slide controls either completely on or off. Gain controls, effect controls, aux out, light out and talkover all at the right stop. Transition at either the right or left stop, as required. Mic and pre-monitor path testing. Activate "stereo" mode. Effect buttons to be depressed only while testing each individual effect send path. Panorama control at center setting. Lo-cut at left stop.

The Sennheiser UPM 550 is used for all measurements. Use settings "A" and "RMS" if not otherwise specified.

2) Inputs

Phono 1,2	2 (mV)	max.	60 (mV)
Phono 3	2 (mV)	max.	60 (mV)
Tape 1,2	75 (mV)	max.	35 (V)
Line	60 (mV)	max.	35 (V)
Mic 1	4.5 (mV)	max.	5 (V)
Mic 2	4.5 (mV)	max.	5 (V)
Effect 1 return	900 (mV)		
Effect 3 return	900 (mV)		
Expansion jack	550 (mV)	max.	8 (V)

3) Outputs

Normal out	1.55 (V)	max.	8 (V)
Lo out (50 Hz unweighted)	1.55 (V)	max.	8 (V)
Hi out	1.55 (V)	max.	8 (V)
Aux out	1 (V)	max.	8 (V)
Light out	1 (V)	max.	8 (V)

Phones out	2.5 (V)	max.	8 (V)
Tape send (RCA jack)	150 (mV)	max.	3 (V)
Tape send (DIN)	150 (mV)	max.	3 (V) /330 kOhm
Effect 1	1.9 (V)	max.	4 (V)
Effect 2	1.9 (V)	max.	4 (V)

4) Noise voltage ("A", "RMS")

Mains output controls off

Normal out	< 30 (uV)
Lo out	< 10 (uV)
Hi out	< 30 (uV)

Main output controls on.

Normal out	< 100 (uV)

Main output controls on; phono 1,2 on;
phono inputs shorted.

Normal out	< 600 (uV)

Main output controls off; Mic 1 or Mic 2 input shorted; Mic 2 or Mic 1 control on.

Normal out	< 500 (uV)

5) Distortion < 0.05 %

6) Clipping display

Begins to light at input voltage ≈3 (mV)

7) Automatic microphone control

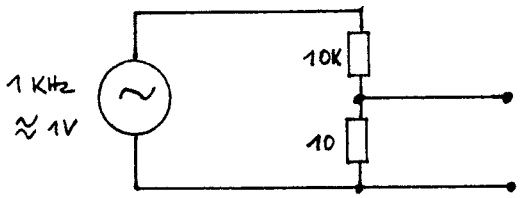
Threshold value, minimum	≈ 300 (uV)
Threshold value, gain control at center setting	≈ 3 (uV)
Threshold value, gain control at left stop	≈ 200 (uV)

8) Useful dynamic output range > 108 (dB)

Useful dynamic range, phonograph equalization > 94 (dB)

9) Frequency response characteristics - see page 17 - 18

1) Operational voltage 220 V
Test frequency 1 kHz; test voltage 1 mV / 10 ohms



Test setting: All equalizers set at their neutral positions, faders at the stop in each case (unused channels are to be turned down); all rotary control and the transition control at their center positions; all push-buttons depressed.

The Sennheiser UPM 550 is used to make all measurements. It is set at "peak" and "CCIR 468" if not otherwise specified.

2) Phono 1,2 (left and right)

Normal out	550 (mV)
Lo out	120 (mV)
Hi out	550 (mV)
Aux out	75 (mV)
Light out	530 (mV)
Phones out	1 (V)

3) Aux setting "Line" (left / right)

Normal out	22 (mV)

Aux setting "Phono 3" (left / right)

Normal out	1.5 (V)

4) Tape 1,2 (left / right)

Normal out	15 (mV)

5) Tape send RCA jacks (left / right)

(Applying 1 mV to Phono 1 or Phono 2)

75 (mV)

6) Tape send (DIN jack, Tape 2)

50 (mV)

7) Noise voltage ("Peak", "CCIR 468")

Main output controls on

Normal out	< 650 (uV)

Main output controls off

Normal out	< 160 (uV)
Lo out	< 16 (uV)
Hi out	< 160 (uV)
Aux out	< 260 (uV)
Light out	< 4.5 (mV)

Main output controls on

Phono 1,2 (Inputs shorted, slide control full on)

Normal out < 1,9 (mV)

Phono 3 (Inputs shorted, slide control full on)

Normal out < 5 (mV)

8) Mic 1 Jack on front panel (U_I = 50 mV !)

Normal out	1.5 (V)
To effect 1	750 (mV)
To effect 2	750 (mV)

Clipping lanp must light

Applying voltage to effect returns (left / right)

(U_I = 50 mV)

Normal out	110 (mV)
Tape send (RAC jacks)	20 (mV)

9) Mic 2 Jack on front panel (U_I = 50 mV !)

Normal out	1.5 (V)
To Effect 1	750 (mV)
To Effect 2	750 (mV)

Clipping lamp must light.

10) Noise voltage

Main out put controls off.

Mic 1 input shorted

Normal out <290 (uV)

Mic 2, input shorted.

Normal out < 290 (uV)

11) Automatic microphone control

With the talkover control set at its right stop, apply 50 (mV) to Mic 1 jack and at the same time to Phono 1 or 2 or tape 1 or 2. Turn down Mic 1 slid control. Use trimming potentiometer R 137/138 to set for minimum voltage at the "Normal out" output.

Talkover damping >40 (dB)

12) Switching delay approx 2.5 (s)

13) LED arrays

Left and right.

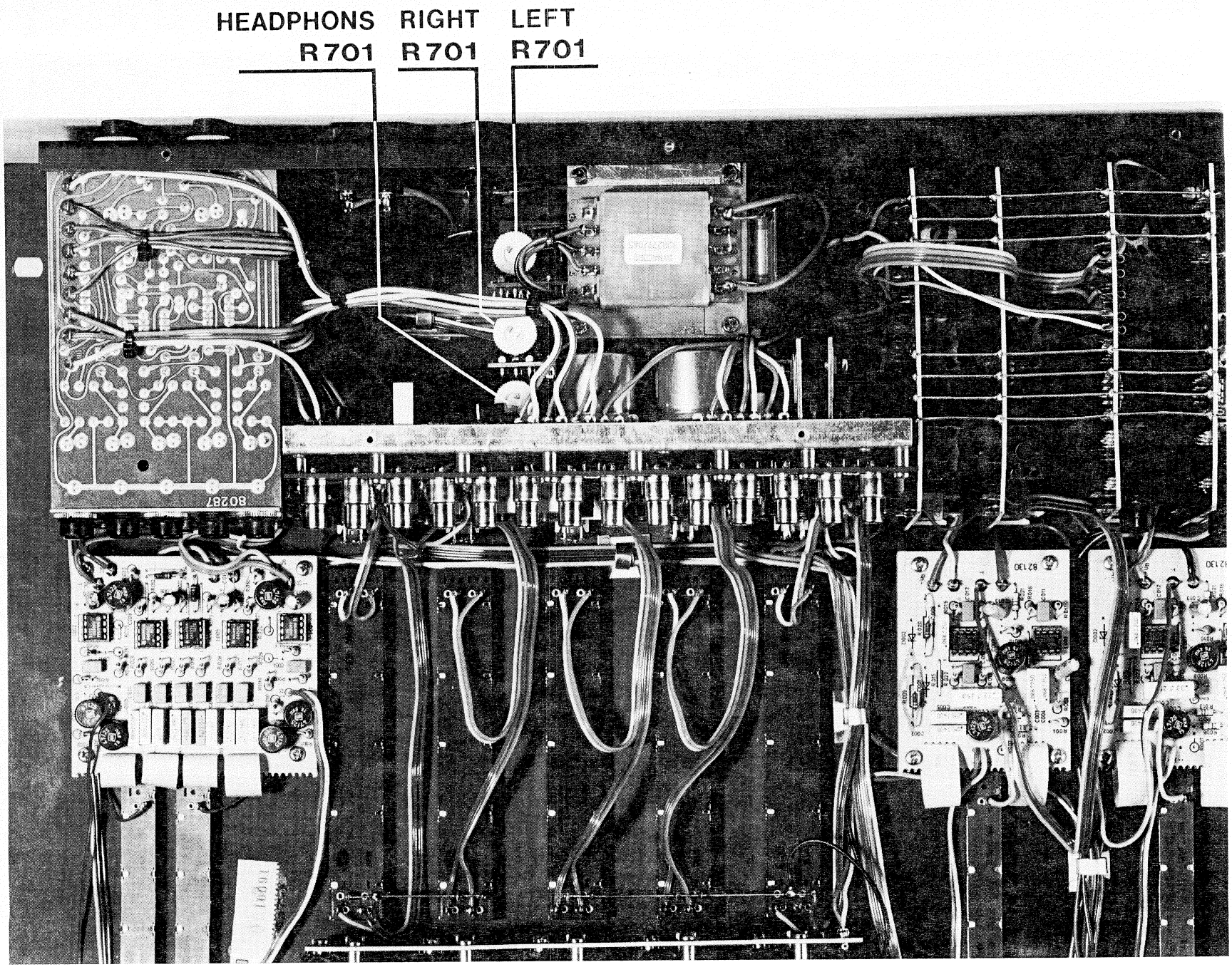
With 1.5 V present at "normal out", use R 701 to adjust so that the 8 dB LEDs just go out.

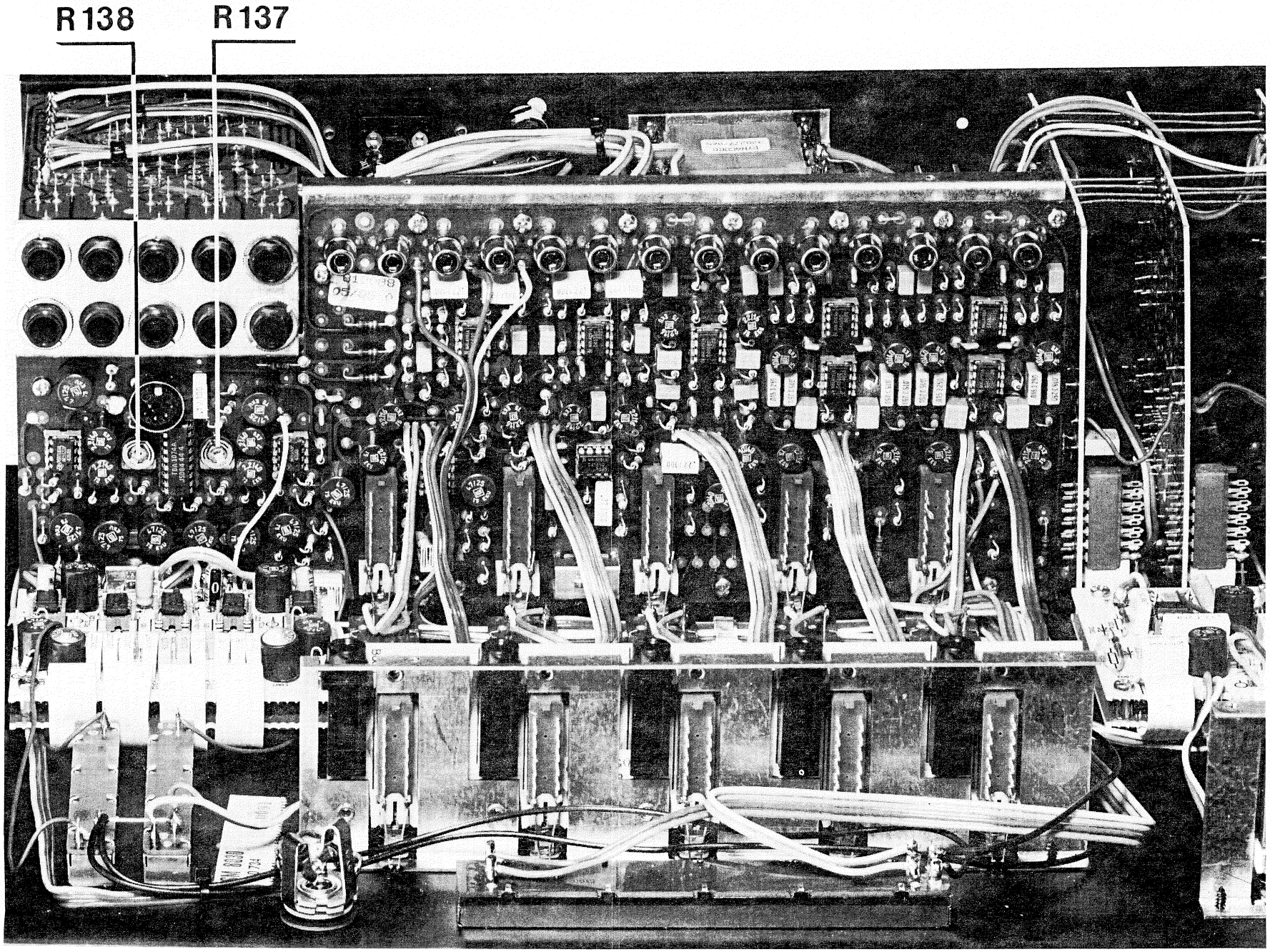
Headphones

With 7 V present at the headphone output, use R 701 to adjust so that the 8 dB LEDs just go out.

	SM 8030	SM 7080
Inputs		
Phone 1, 2	2 mV - 60 mV	2 mV - 60 mV
Phone 3	2 mV - 60 mV	
Tape 1, 2	75 mV - 35 V	75 mV - 35 V
Line	60 mV - 35 V	
Mic 1	4.5 mV - 5 V	4.5 mV - 5 V
Mic 2	4.5 mV - 5 V	
Effect 1 Return	900 mV	900 mV
Effect 2 Return	900 mV	900 mV
Expansion	550 mV - 8 V	550 mV - 8 V
Outputs		
Normal out	1.55 V - 8 V	1.55 V - 8 V
LO out (10 Hz - 200 Hz, - 3dB)	1.55 V - 8 V	1.55 V - 8 V
HI out (200 Hz - 100 kHz, - 3 dB)	1.55 V - 8 V	1.55 V - 8 V
Aux out	1 V - 8 V	1 V - 8 V
Light out	4 V - 8 V	4 V - 8 V
Phones out (R_L = 2 x 600 Ohm)	2.5 V - 8 V	2.5 V - 8 V
Tape send (Cinch)	150 mV - 3 V	150 mV - 3 V
Tape send (DIN)	150 mV - 3 V/330 kOhm	150 mV - 3 V/330 kOhm
Effect 1	1.9 V - 4 V	1.9 V - 4 V
Effect 2	1.9 V - 4 V	1.9 V - 4 V
Distortion	0.05 %	0.05 %
Volume range	108 dB	108 dB
Power consumption	max. 30 VA	max. 25 VA
Operating voltage	220 V~AC 50-60 Hz	220 V~AC 50-60 Hz
Dimensions (W x H x D)	483 x 355 x 135 mm	483 x 355 x 135 mm
Weight	16.5 lbs	15.5 lbs

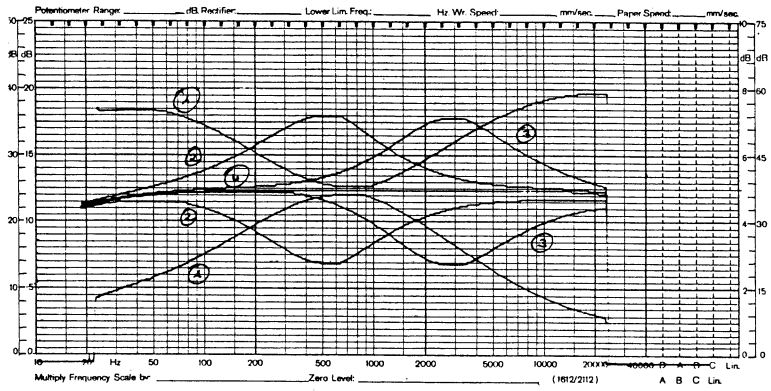
- Subject to modifications -


HEADPHONS R701
RIGHT R701
LEFT R701


R138
R137

Frequenzgang Mic 1 (Normal out)

1	Lo-EQ, Hi-EC	Minimum	Maximum
2	Lo-Mid	Minimum	Maximum
3	Hi-Mid	Minimum	Maximum
4	Alle Regler	Mittelstellung	

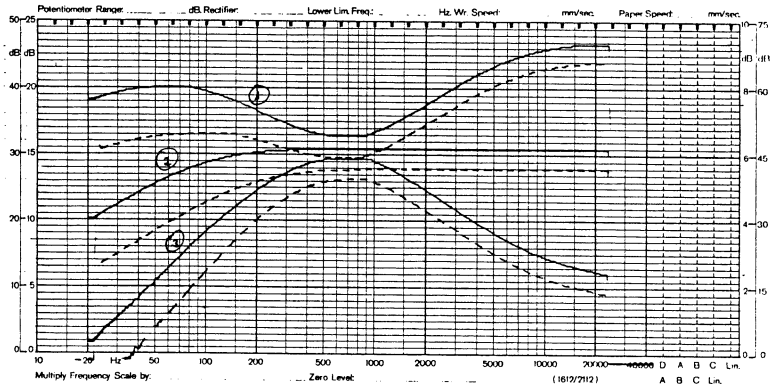


Frequenzgang Mic 2 (Normal out)

—— Lo-cut Linksanschlag

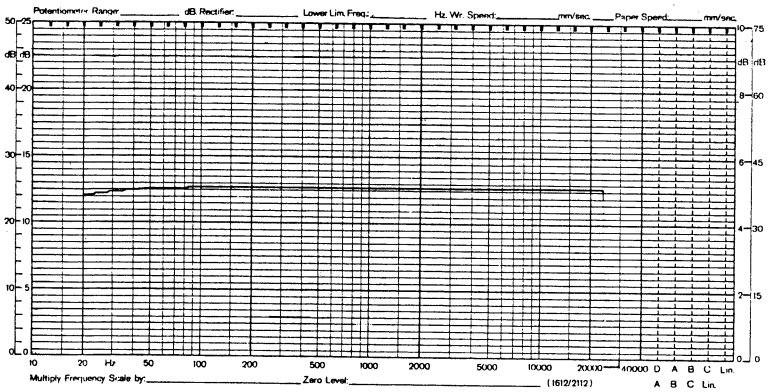
– – – Lo-cut Rechtsanschlag

1	Hi-EC, Lo-EC	Maximum
2	Hi-EC, Lo-EC	Mittelstellung
3	Hi-EC, Lo-EC	Minimum



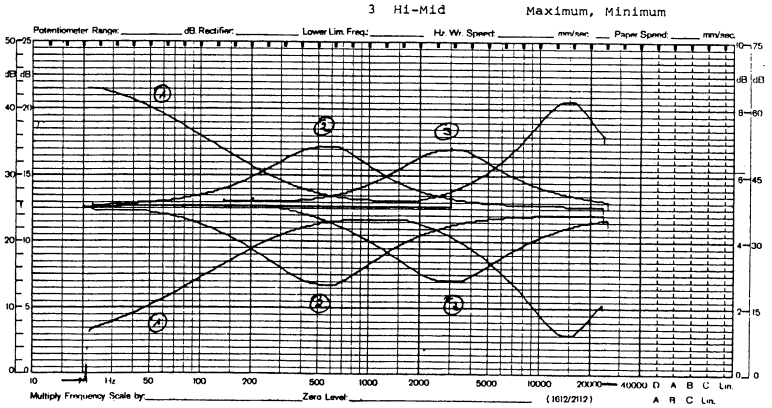
Frequenzgang Phono 1,2,3 (Normal out)

mit Passiv - Invers RIAA - Entzerrer



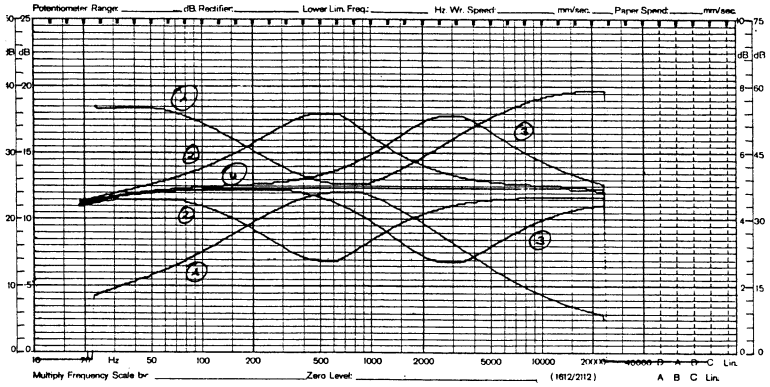
Frequenzgang Stereo Equalizer (Tape 1,2, Normal output)

1	Hi-EC, Lo-EC	Maximum, Minimum
2	Lo-Mid	Maximum, Minimum
3	Hi-Mid	Maximum, Minimum



Frequenzgang Mic 1 (Normal out)

1 Lo-EQ, Hi-EC Minimum Maximum
2 Lo-Mid Minimum Maximum
3 Hi-Mid Minimum Maximum
4 Alle Regler Mittelstellung

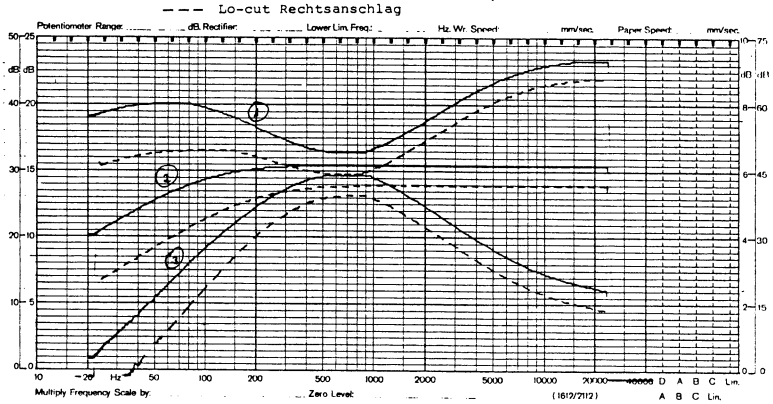


Frequenzgang Mic 2 (Normal out)

—— Lo-cut Linksanschlag

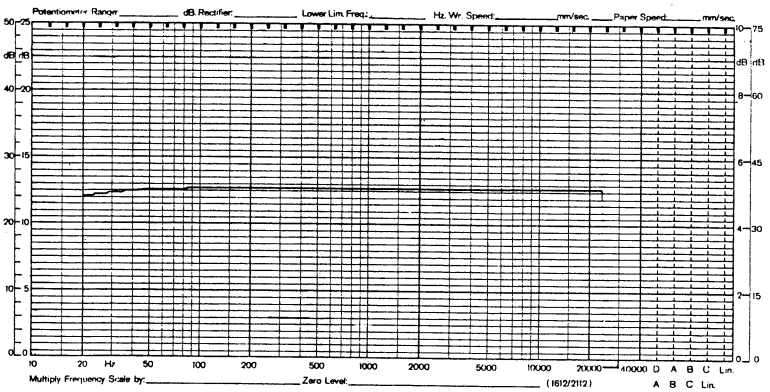
1 Hi-EC, Lo-EC Maximum
2 Hi-EC, Lo-EC Mittelstellung
3 Hi-EC, Lo-EC Minimum

– – – Lo-cut Rechtsanschlag



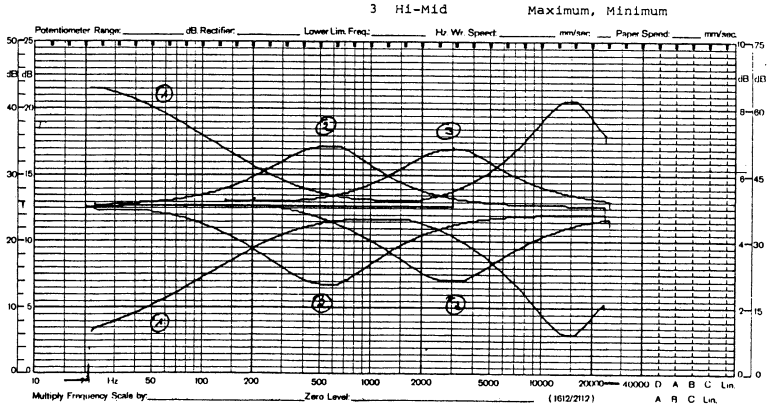
Frequenzgang Phono 1,2,3 (Normal out)

mit Passiv - Invers RIAA - Entzerrer



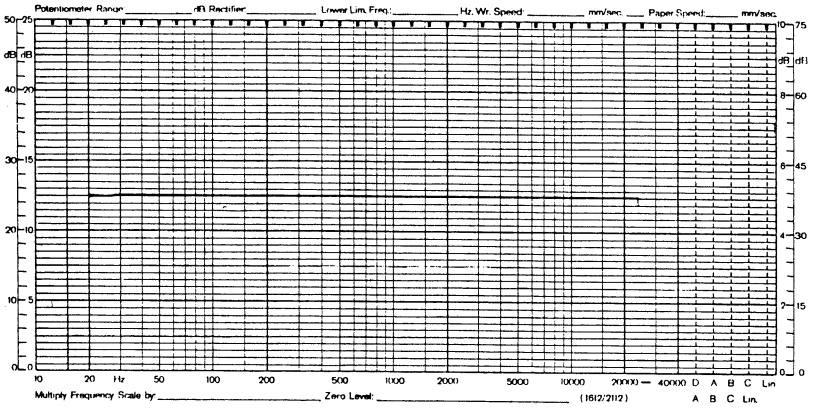
Frequenzgang Stereo Equalizer (Tape 1,2, Normal output)

1 Hi-EC, Lo-EC Maximum, Minimum
2 Lo-Mid Maximum, Minimum
3 Hi-Mid Maximum, Minimum



Frequenzgang Tape 1,2, Aux (Stellung Line)

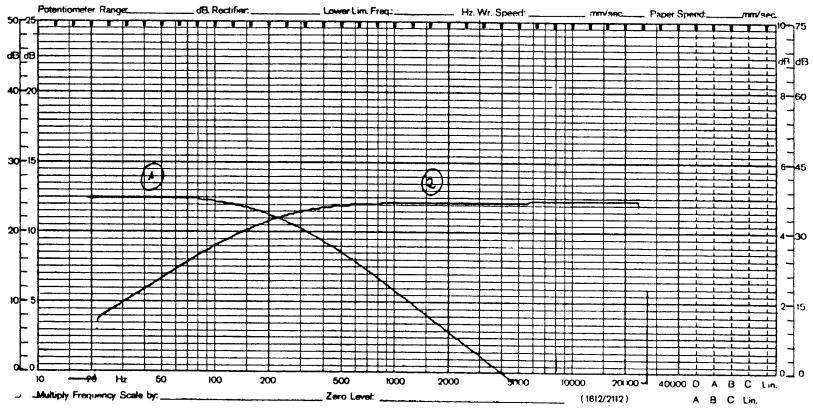
(Normal out)



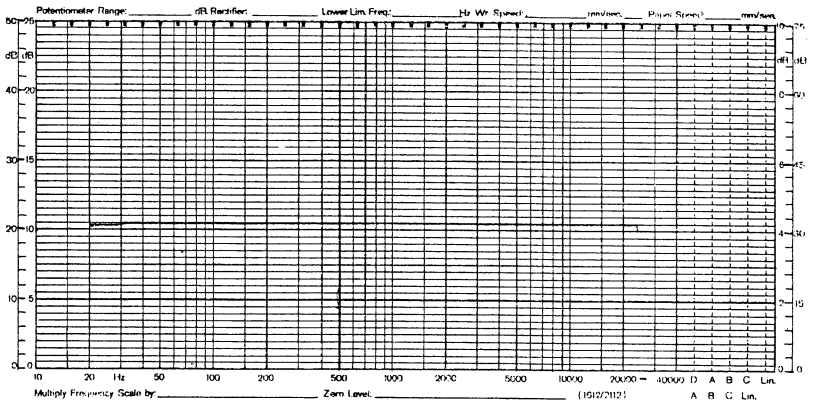
Frequenzgang Tape 1,2 (Lo-out, Hi-out)

1 Lo-out

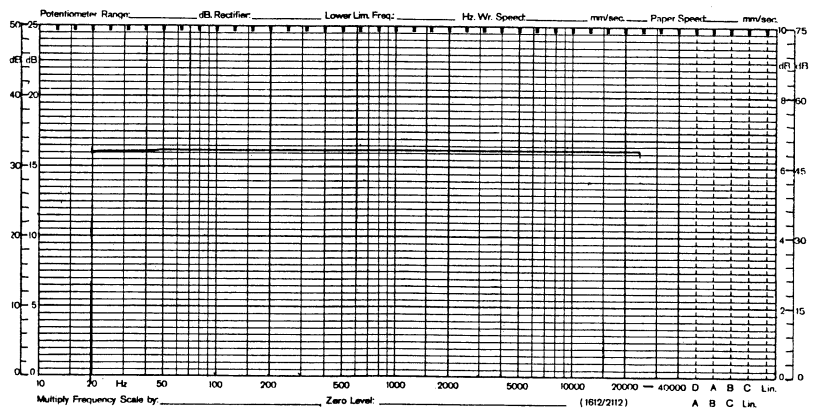
2 Hi-out

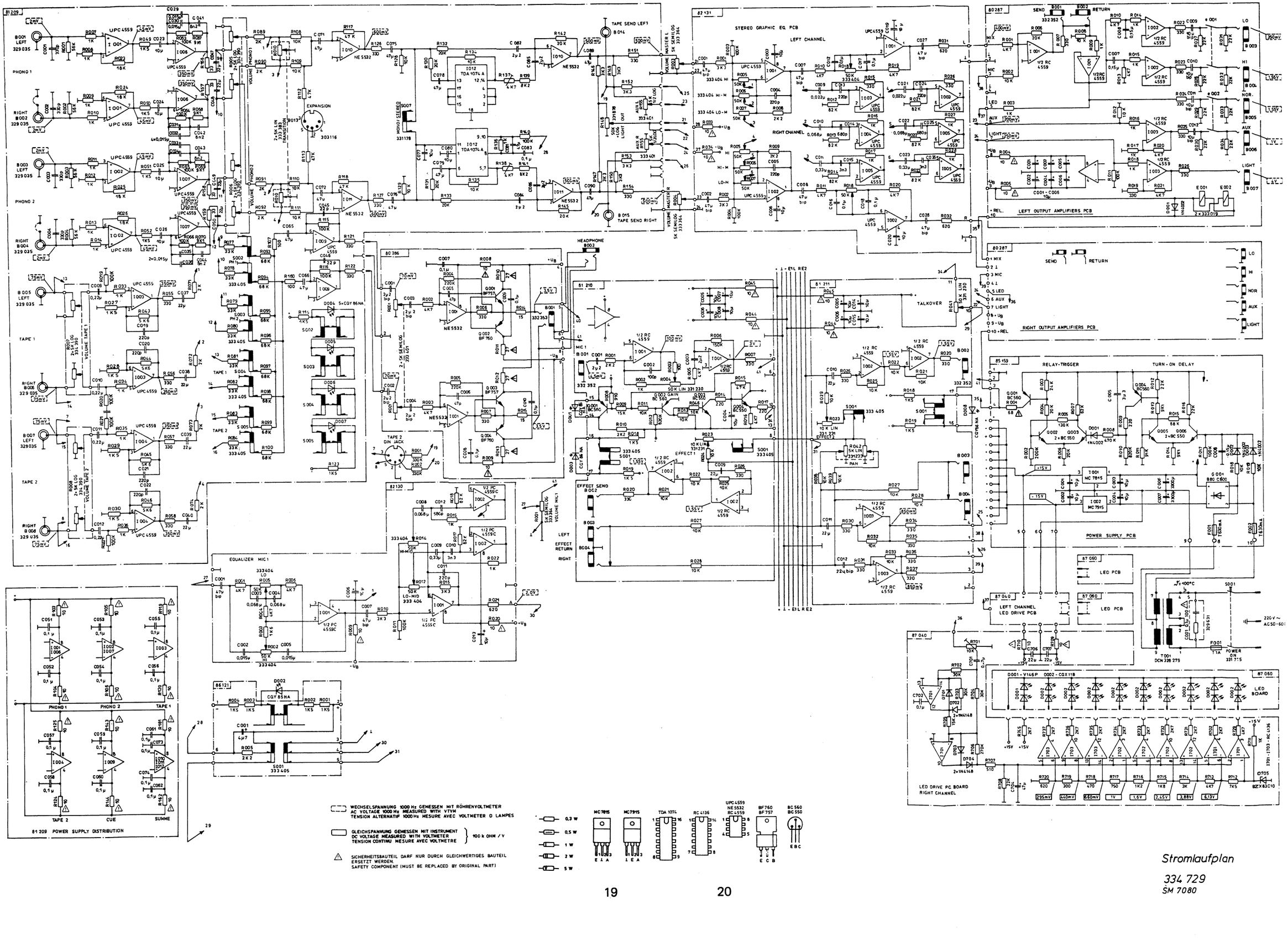


Frequenzgang Tape 1,2 (Aux out)



Frequenzgang Tape 1,2 (Light out)





Stromlaufplan

334 729

SM 7080

81 208

PHONO 1

PHONO 2

TAPE 1

TAPE 2

TAPE 3

EXPANSION

80 286

HEADPHONE B003

MIC 1 B001

TAPE 2 DIN JACK

EQUALIZER MIC 1

82 130

EQUALIZER MIC 2

82 131

STEREO GRAPHIC EQ. PCB

LEFT CHANNEL

RIGHT CHANNEL

TAPE SEND LEFT B014 329 035

TAPE SEND RIGHT B015 329 035

80 287

SEND B001 B002 RETURN

LEFT OUTPUT AMPLIFIERS PCB

RIGHT OUTPUT AMPLIFIERS PCB

81 210

81 211

TALKOVER

EFFECT SEND B002

EFFECT RETURN

LEFT

RIGHT

EFFECT 1

EFFECT 2

LO-CUT

81 215

81 216

MIC 2 B001

85 159

RELAY-TRIGGER

TURN-ON DELAY

POWER SUPPLY PCB

87 040

RIGHT CHANNEL LED DRIVE PCB

LEFT CHANNEL LED DRIVE PCB

87 060

LED PCB

LED BOARD

LED DRIVE PC BOARD HEADPHONE

86 120

86 119

FERNSTART-PRINTPLATTE B001 - B005 332353

MIC ON AIR PRINTPLATTE

△ SICHERHEITSBAUTEIL DARF NUR DURCH GLEICHWERTIGES BAUTEIL ERSETZT WERDEN
SAFETY COMPONENT (MUST BE REPLACED BY ORIGINAL PART)

GLEICHSPANNUNG GEMESSEN MIT INSTRUMENT
DC VOLTAGE MEASURED WITH VOLTMETER
TENSION CONTINU MESURE AVEC VOLTMETRE
} 100 k OHM / V

WECHSELSPANNUNG 1000 Hz GEMESSEN MIT RÖHRENVOLTMETER
AC VOLTAGE 1000 Hz MEASURED WITH VTVM
TENSION ALTERNATIF 1000 Hz MESURE AVEC VOLTMETER D LAMPES

0,3 W
0,5 W
1 W
2 W
5 W

MC 7815 MC 7915 BC 550 BC 560 UPC 4559 NE5532 RC4559 RC4136 TDA 1074 BF 760 BF 757

E I A I E A E B C E C B

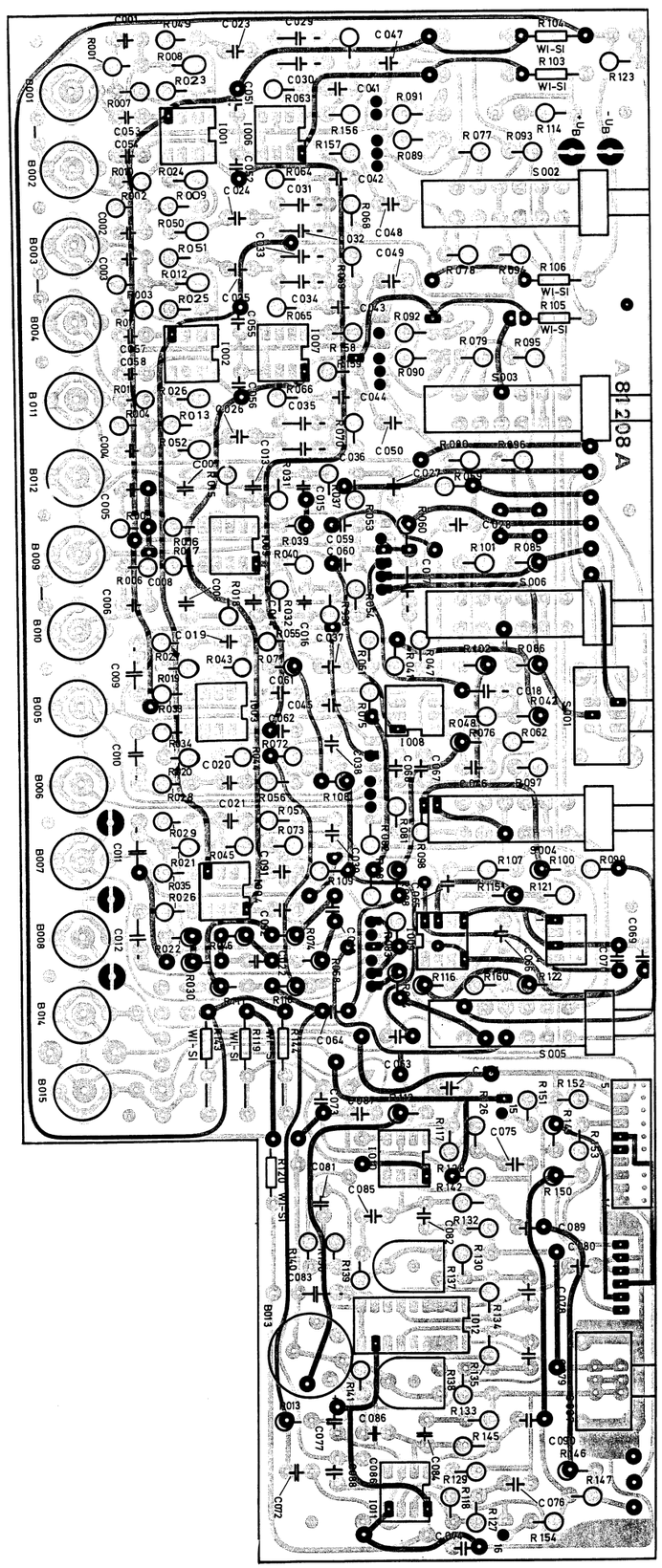
Stromlaufplan

334 728
SM 8030

PHONOEINGANG
INPUT PHONO

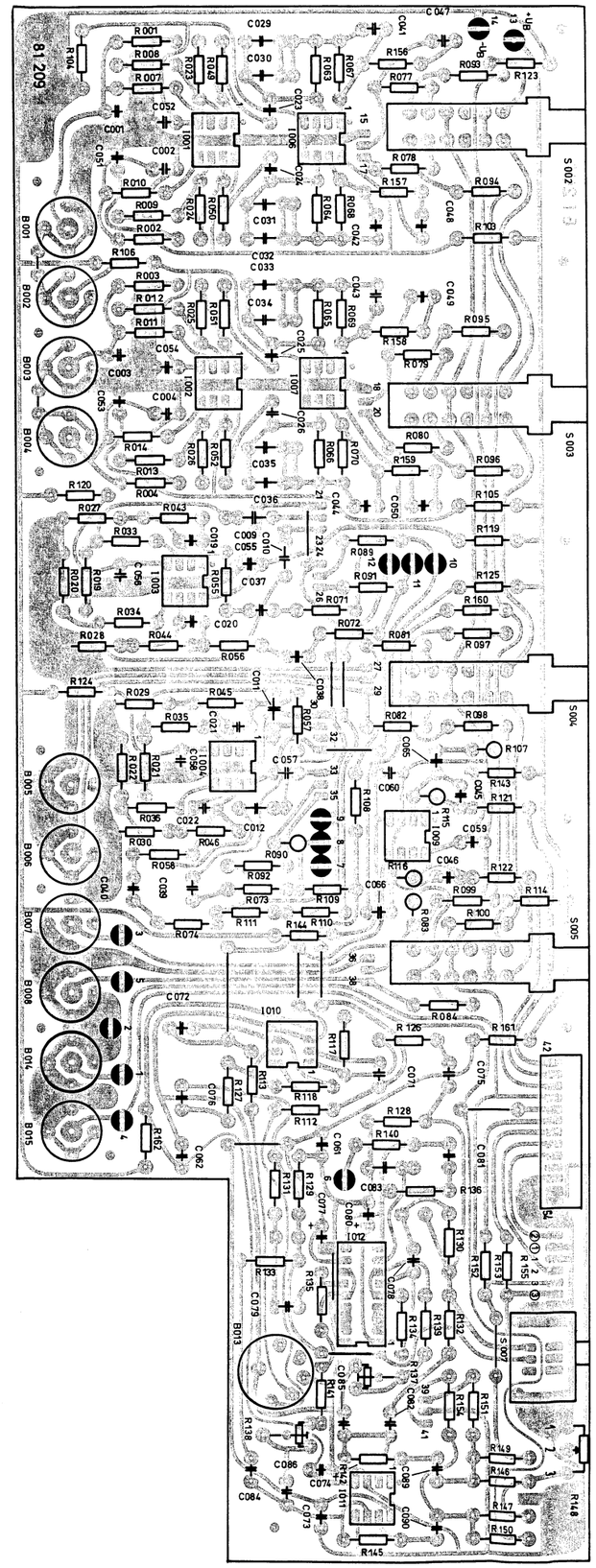
81208 SM 8030

Bestückungsseite
component side



81 209 SM 7080

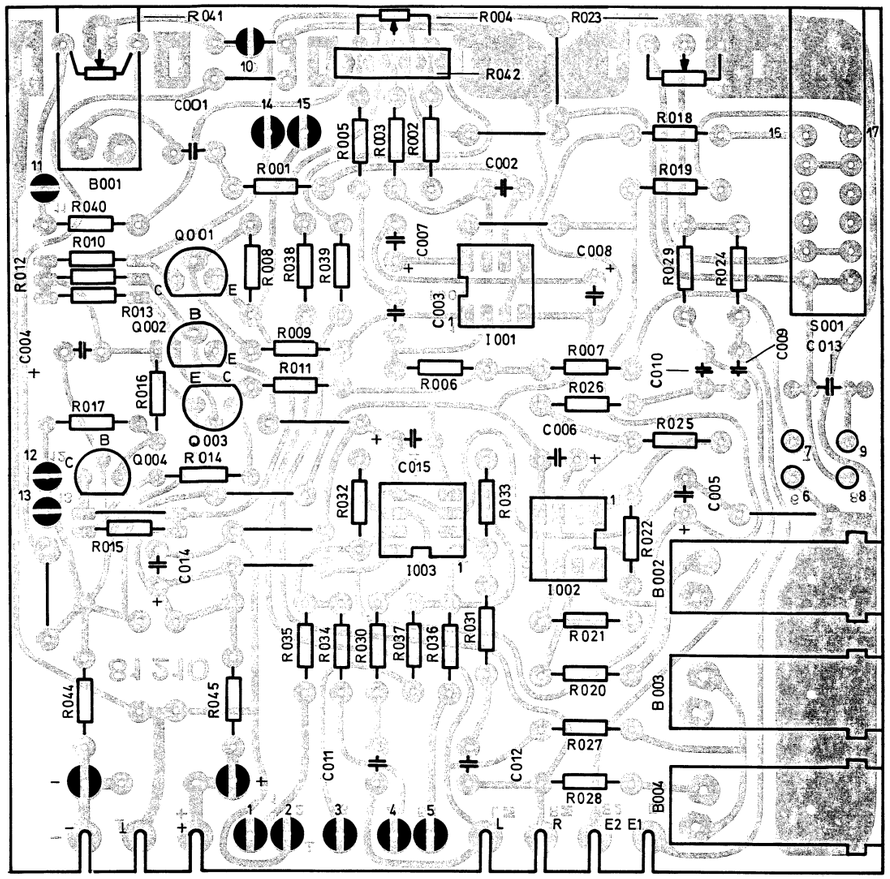
Bestückungsseite
component side

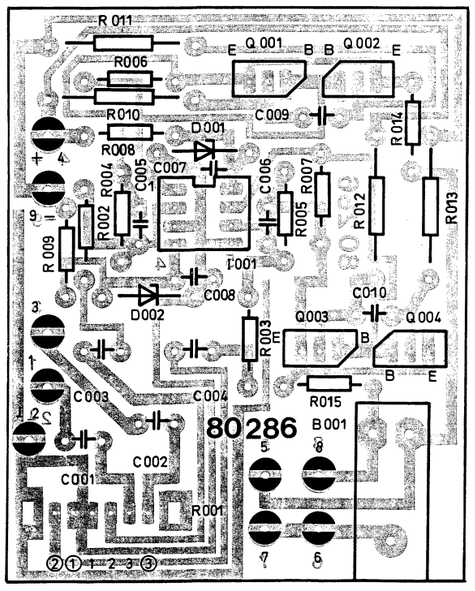


MICRO 1
MICRO 2
MICRO 3 (SM 8030)
MICRO 4 (SM 8030)

81210

Bestückungsseite
component side





Kopfhörer
Headphones

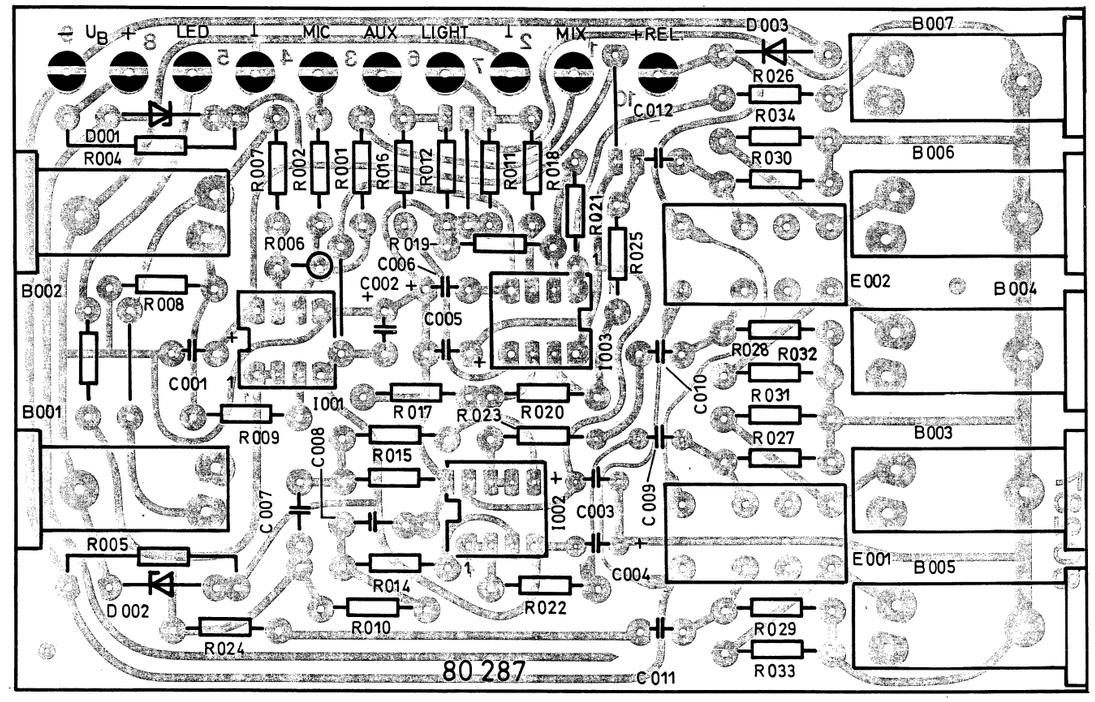
80286

Bestückungsseite
component side

Bestückungsseite
component side

80287

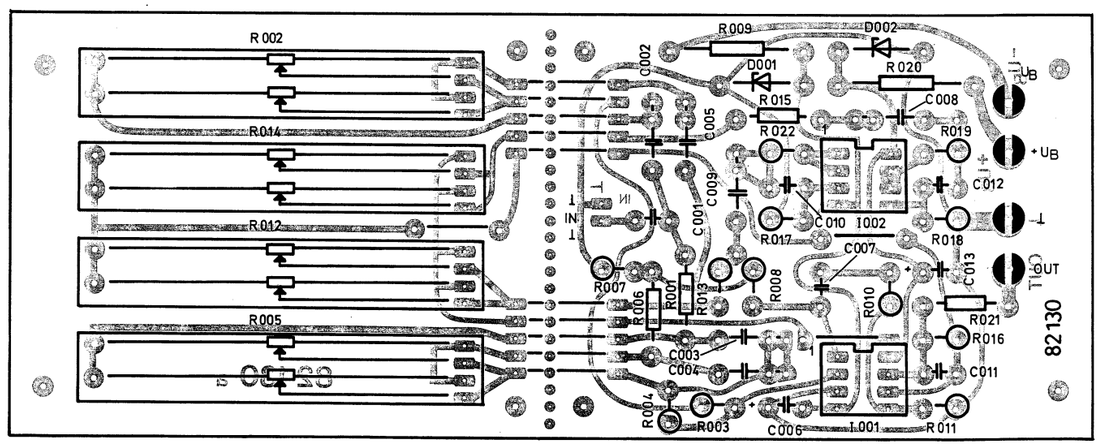
Ausgang
Output



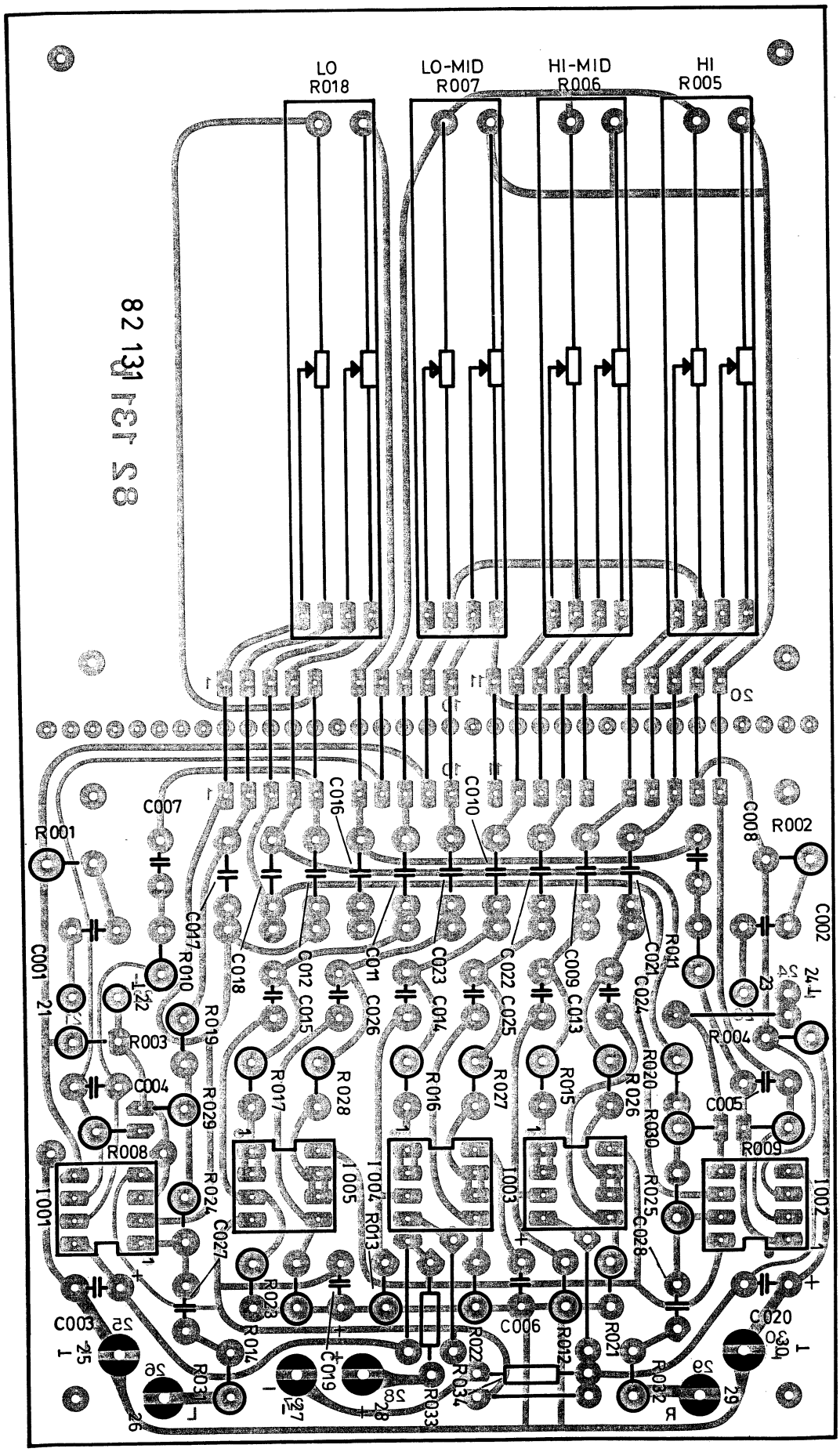
EQ-MONO

82130

Bestückungsseite
component side

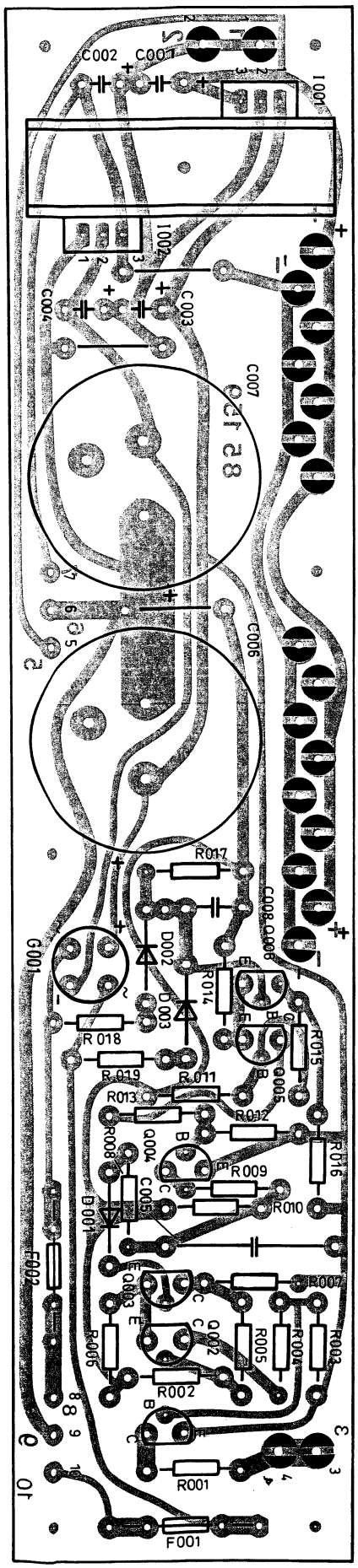


EQ-STEREO 82131 Bestückungsseite component side



Netzteil
Power Supply

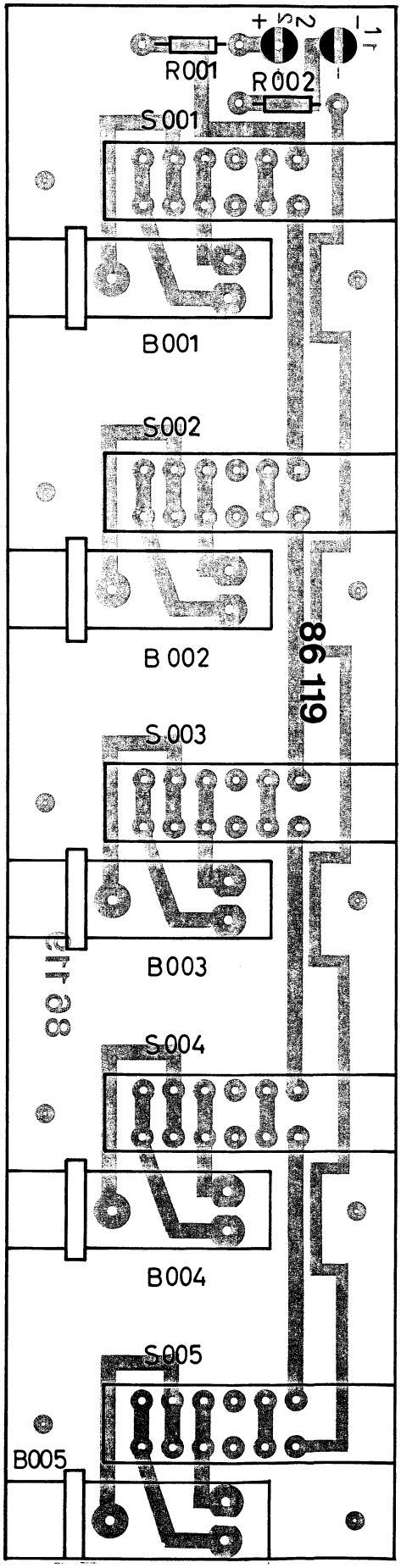
85159



Bestückungsseite
component side

86119

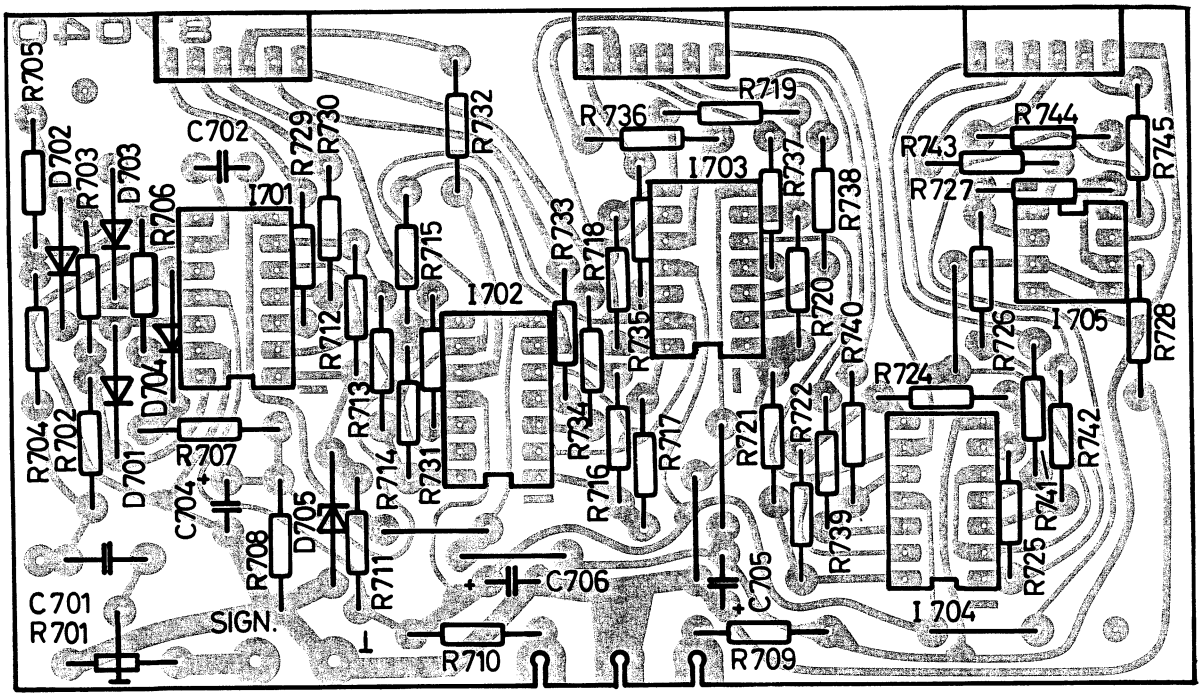
Fernstart (SM 8030)
Remote (SM 8030)



Anzeige privat
Display

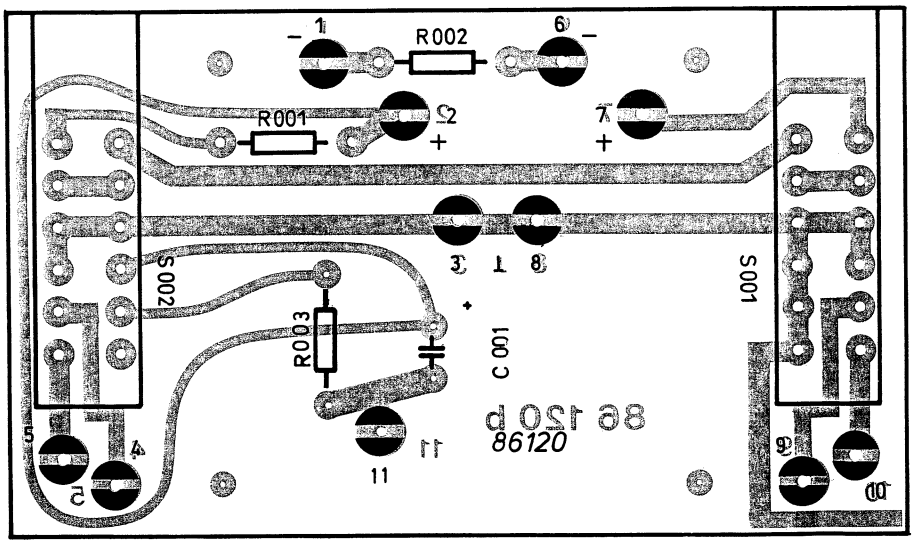
87040

Bestückungsseite
component side



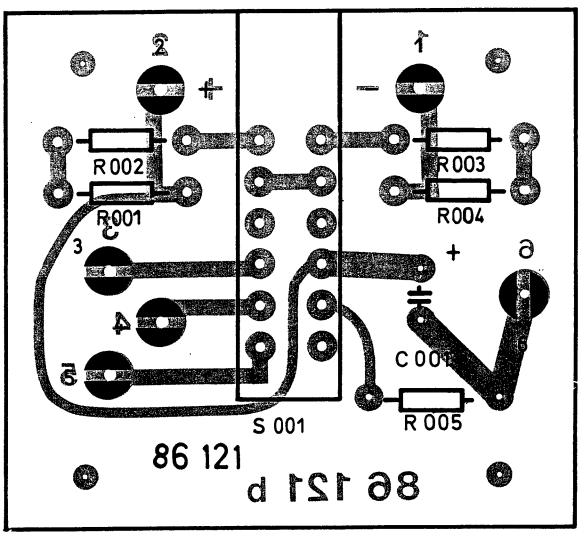
MICROSCHALTER
MICRO SWITCH

86120 (SM 8030)



Bestückungsseite
component side

86121 (SM 7080)



Pos. im Schaltbild Pos. in diagram	Bezeichnung	Description	Best.-Nr. Part-No.
	Frontblende SM 8030	front panel SM 8030	333 325
	Frontblende SM 7080	front panel SM 7080	333 327
	Schiebeknopf ws	fader knob	334 348
	Drehknopf 15,5	knob 15,5	332 742
	EQ-Knopf	EQ-knob	333 423
	Vorhör-Knopf	pre-Listen-knob	332 180
	Knopf-Taste rot	knob red	331 492
	Sicherungshalter	fuse holder	301 319
	Sicherungshalter-Kappe	fuse holder cap.	301 318
	Netztrafo	mains transformer	328 279
	Thermo-Schalter	thermal-switch	307 417
B 001	Kaltgeräte-Stecker	connector	327 563
B 002	Buchse-Flansch	socket	303 092
B 003	Buchse-Koaxial	socket	305 405
D 001-009	LED rot 3 mm	LED red	305 311
D 010-018	LED grün 3 mm	LED geen 3 mm	329 845
S 001	Netzschalter	mains-switch	331 175
C 001	Sicherheitsbauteil 0,1 MF + 100 Ohm	safety component 0.1 MF + 100 Ohm	329 631
R 001/002	Schieberegler MICRO 5 K Ohm log semi	fader MICRO 5 k Ohm log semi	333 364
R 005/006	Schieberegler PHONO 2 x 5 K Ohm log	fader PHONO 2 x 5 k Ohm log	334 390
R 007/008	Schieberegler TAPE 2 x 5 K Ohm log	fader TAPE 2 x 5 K Ohm log	334 390
R 009	Schieberegler AUX 2 x 5 K Ohm log	fader AUX 2 x 5 K Ohm log	334 390

Pos. im Schaltbild Pos. in diagram	Bezeichnung	Description	Best.-Nr. Part-No.
R 003/004	Schieberegler MASTER L+R 5 K Ohm log semi	fader MASTER L+R 5 K Ohm log semi	333 364

Printplatte 80 286 Kopfhörer
Print 80 286 Headphones

B 001	Buchse-Koaxial	coaxial-socket	332 353
I 001	IC UPC 4559 C	IC UPC 4559 C	327 364
Q 001/003	Transistor BF 757	transistor BF 757	328 762
Q 002/004	Transistor BF 760	transistor BF 760	328 763
R 001	Potentiometer 2 x 5 K Ohm log	potentiometer 2 x 5 K Ohm log	333 401
	IC Fassung 8 pol.	IC socket 8 pol.	309 354

Printplatte 80 287 Ausgangsplatte
Print 80 287 Output

B 001-007	Buchse-Koaxial	coaxial-socket	332 352
D 001	Diode 1 N 4002	diode 1 N 4002	304 360
E 001/002	Relais A 101	relay A 101	333 019
I 001-003	IC UPC 4559 C	IC UPC 4559 C	327 364
R 004/005	Sicherungswiderstand 10 Ohm	safety component 10 Ohm	329 215

Printplatte 81 208 (81 209 SM 7080) Phonoeingang
Print 81 208 (81 209 SM 7080) Input Phono

B 001-012 014/015	Buchse Cinch	socket cinch	329 035
B 013	Buchse print	socket print	303 116
I 001-009	IC UPC 4559 C	IC UPC 4559 C	327 364
I 010/011	IC NE 5532 N	IC NE 5532 N	327 197

Pos. im Schaltbild Pos. in diagram	Bezeichnung	Description	Best.-Nr. Part-No.
I 012	IC TDA 1074 A	IC TDA 1074 A	327 044
R 013-106 119/120 143/144	Sicherheitswiderstand 10 Ohm	safety component 10 Ohm	329 215
R 148	Potentiometer 50 K Ohm A log	potentiometer 50 K Ohm log	331 878
R 155	Potentiometer 2 x 5 K Ohm log	potentiometer 2 x 5 K Ohm log	333 401
S 001/007	Schiebeschalter	switch	331 178
S 002-006	Schalter-Taste	switch	333 405

Printplatte 81 210 Micro 1
Print 81 210 Micro 1

B 001-004	Buchse-Koaxial	coaxial-socket	332 352
I 001/002	IC UPC 4559 C	IC UPC 4559 C	327 364
Q 001/002	Transistor BC 560 B	transistor BC 560 B	306 928
Q 003/004	Transistor BC 550 B	transistor BC 550 B	301 184
R 004	Potentiometer 50 K Ohm lin	potentiometer 50 K Ohm lin	331 230
R 023	Potentiometer 10 K Ohm lin	potentiometer 10 K Ohm lin	331 231
R 044/045	Sicherheitswiderstand 10 Ohm	safety component 10 Ohm	329 215
S 001	Schalter-Taste	switch	333 405
	IC Fassung 8 pol.	IC socket 8 pol.	309 354

Printplatte 81 211 Micro 2
Print 81 211 Micro 2

B 002-004	Buchse-Koaxial	coaxial-socket	332 352
I 002/003	IC UPC 4559 C	IC UPC 4559 C	327 364
R 023	Potentiometer 10 K Ohm B lin	potentiometer 10 K Ohm B lin	331 230
R 042	Potentiometer 2 x 5 K Ohm B lin	potentiometer 2 x 5 K Ohm B lin	331 233

Pos. im Schaltbild Pos. in diagram	Bezeichnung	Description	Best.-Nr. Part-No.
R 044/045	Sicherheitswiderstand 10 Ohm	safety component 10 Ohm	329 215
S 001	Schalter-Taste	switch	333 405
	IC Fassung 8 pol.	IC socket 8 pol.	309 354

Printplatte 81 215 Micro 3 (SM 8030)
Print 81 215 Micro 3 (SM 8030)

B 001	Buchse-Koaxial	coaxial-socket	332 352
I 001	IC UPC 4559 C	IC UPC 4559 C	327 364
Q 001	Transistor BC 560 B	transistor BC 560 B	306 928
R 004/023	Potentiometer 50 K Ohm B lin	potentiometer 50 K Ohm B lin	331 230
R 044/045	Sicherheitswiderstand 10 Ohm	safety component 10 Ohm	329 215
S 001	Schalter-Taste	switch	333 405
	IC Fassung 8 pol.	IC socket 8 pol.	309 354

Printplatte 81 216 Micro 4 (SM 8030)
Print 81 216 Micro 4 (SM 8030)

R 023/042	Potentiometer 10 K Ohm B lin	potentiometer 10 K Ohm B lin	331 231
R 042	Potentiometer 2 x 5 K Ohm B lin	potentiometer 2 x 5 K Ohm B lin	331 233
S 001	Schalter-Taste	switch	333 405

Printplatte 82 130 EQ Mono
Print 82 130 EQ Mono

I 001/002	IC UPC 4559 C	IC UPC 4559 C	327 364
R 002/005	Schieberegler 2 x 50 K Ohm S	fader 2 x 50 K Ohm S	333 404
R 020	Sicherheitswiderstand 10 Ohm	safety component 10 Ohm	329 215

Pos. im Schaltbild Pos. in diagram	Bezeichnung	Description	Best.-Nr. Part-No.
Printplatte 82 131 EQ Stereo Print 82 131 EQ Stereo			
I 001-005	IC UPC 4559 C	IC UPC 4559 C	327 364
R 005-007 018	Schieberegler 2 x 50 K Ohm S	fader 2 x 50 K Ohm S	333 404
R 033/034	Sicherheitswiderstand 10 Ohm	safety component 10 Ohm	329 215
Printplatte 85 159 Netzteil Print 85 159 Power supply			
D 001-003	Diode 1 N 4002	diode 1 N 4002	304 360
G 001	Gleichrichter B 80 C 800	rectifier B 80 C 800	301 203
I 001	IC MC 7815	IC MC 7815	308 292
I 002	IC MC 7915	IC MC 7915	308 293
Q 001/004	Transistor BC 560 B	transistor BC 560 B	306 928
Q 002/003 005/006	Transistor BC 550 B	transistor BC 550 B	301 184
Printplatte 86 119 Fernstart (SM 8030) Print 86 119 Remote (SM 8030)			
B 001-005	Buchse-Koaxial	coaxial-socket	332 353
S 001-005	Schalter-Taste	switch	333 405
Printplatte 86 120 (86 121 SM 7080) Print 86 120 (86 121 SM 7080)			
S 001/002	Schalter-Taste		333 405

Pos. im Schaltbild Pos. in diagram	Bezeichnung	Description	Best.-Nr. Part-No.
Printplatte 87 040 Anzeige Print 87 040 Display			
D 701-704	Diode 1 N 4148	diode 1 N 4148	301 254
D 705	Zenerdiode BZX 83 C 10	break down diode BZX 83 C 10	301 309
I 701-703	IC RC 4136 N	IC RC 4136 N	308 291
R 701	Trimmpot 10 K Ohm lin	min pre set. 10 K Ohm lin	301 638
R 709/710	Sicherheitswiderstand 10 Ohm	safety component 10 Ohm	329 215
Printplatte 87 060 LED-Anzeige Print 87 060 LED-Board			
	LED grün 2,5 x 5 mm	LED green 2.5 x 5 mm	331 322
	LED rot 2,5 x 5 mm	LED red 2.5 x 5 mm	306 614